

ABSTRACT

Device for white light interferometry comprising a light source of main emission wavelength λ_0 and spectral width $\Delta\lambda$ and an evaluating unit with a line sensor of pixel width P for detecting an interference fringe pattern with a fringe spacing F , a mask being placed in front of the line sensor having a periodically modulated light transmittance along said line sensor, characterized in that the period length M of the mask is such as to fulfil the condition

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$$\frac{\Delta\lambda}{\lambda_0} < \left|1 - \frac{F}{M}\right| < \frac{1}{2} \frac{F}{P} - \frac{\Delta\lambda}{\lambda_0}$$